

## Install Speakers

# CMS 803DC PI

8" Full Range Ceiling Loudspeaker with Dual Concentric Driver for Installation Applications (Pre-Install)

- Full range ceiling loudspeaker for installation applications
- 90 Watts continuous, 360 Watts peak power
- Next generation 8" Dual Concentric driver featuring Omnimagnet technology
- Torus Ogive waveguide for improved high frequency response and directivity
- Pre-install version supplied without back can (available separately)
- UL 1480 certified for general signalling systems
- UL 2043 certified for air-handling spaces
- Multiple transformer taps for 70 V and 100 V line systems or 16 Ohm direct input
- Low insertion loss 60 W line transformer with easily accessible tapping switch
- Optimised for LAB GRUPPEN low impedance LUCIA amplifiers with up to 8 CMS series loudspeakers per channel
- Semi matt white finish fits unobtrusively in any environment
- Powder coated UV resistant perforated steel mesh grille with dust protection
- Removable magnetic grille for custom painting
- Optional ARCO designer grilles available for minimal architectural impact

The CMS 803DC PI is a full bandwidth 360-Watt high sensitivity loudspeaker that utilises our third generation Ceiling Monitor System technology (CMS 3.0). Thanks to an all-new proprietary 8" Dual Concentric point-source driver with Omnimagnet technology on a Torus Ogive Waveguide, the UL certified CMS 803DC PI delivers wide and consistent broadband directivity with enhanced intelligibility – plus highly accurate and linear response.



## Optimised for Installation

Specifically designed with a self-aligning 5 way clamp system for fast, simple and cost effective installation, CMS 803DC PI also features extra clamp extension to accommodate thicker ceiling panels, and a locking design that prevents over-tightening. A low-insertion loss 60 W transformer with convenient front panel tap switching, paintable powder coated steel mesh grille with dust protection, two tile support rails and one C-ring are all included. An Arco style grille, which conceals the entire unit for aesthetic purposes, back can, and plaster (mud) ring are available separately.

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- Self-aligning 5 way clamp mounting system
- Mounting C-ring and ceiling tile rails included
- 5-Year Warranty Program\*
- Designed and engineered in the U.K.

### LAB GRUPPEN Ready

The CMS 803DC PI is finished in semi matt white and optimised for use with **LAB GRUPPEN LUCIA** amplifiers, which accommodate up to 8 CMS Series loudspeakers per channel.



### You Are Covered

We always strive to provide the best possible Customer Experience. Our products are made in our own **MUSIC Group** factory using state-of-the-art automation, enhanced production workflows and quality assurance labs with the most sophisticated test equipment available in the world.

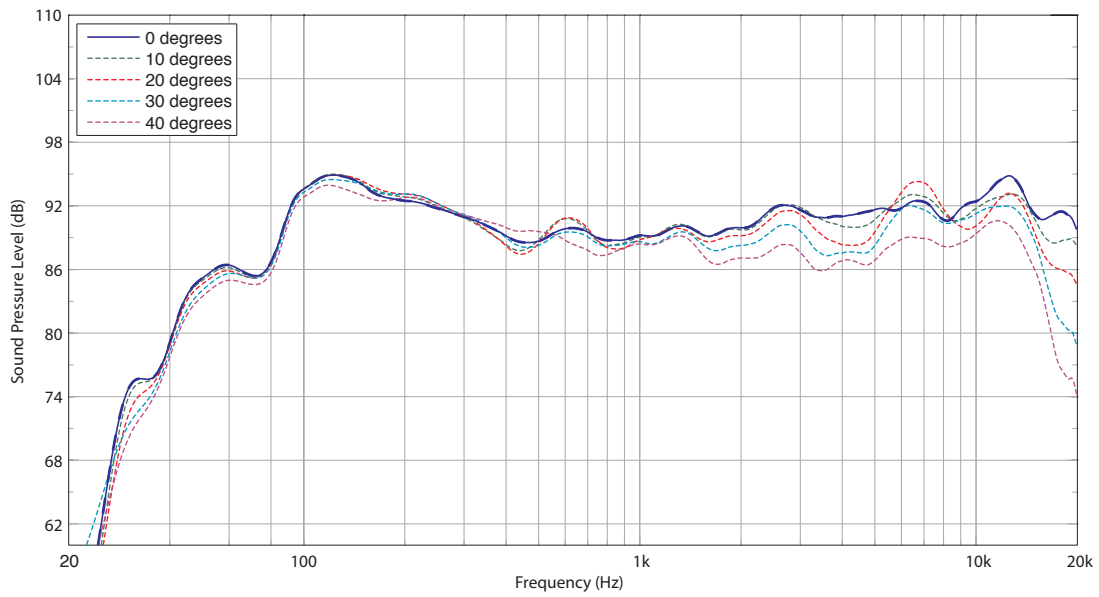
As a result, we have one of the lowest product failure rates in the industry, and we confidently back it up with a generous **5-Year Warranty** program.

## Install Speakers

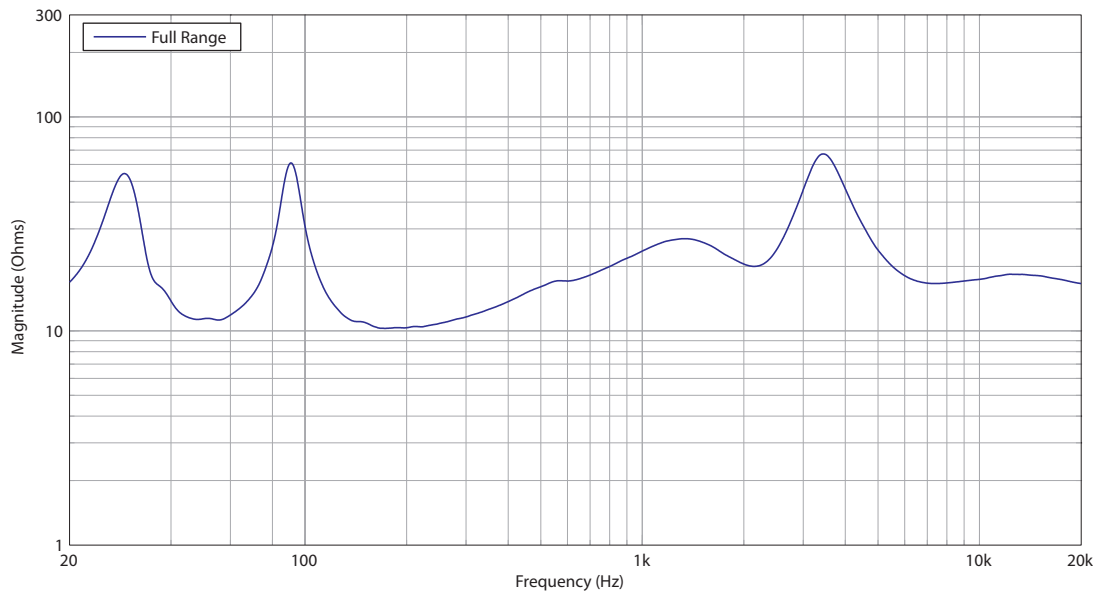
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### Frequency Response Sensitivity 1 W / 1 m



### Impedance

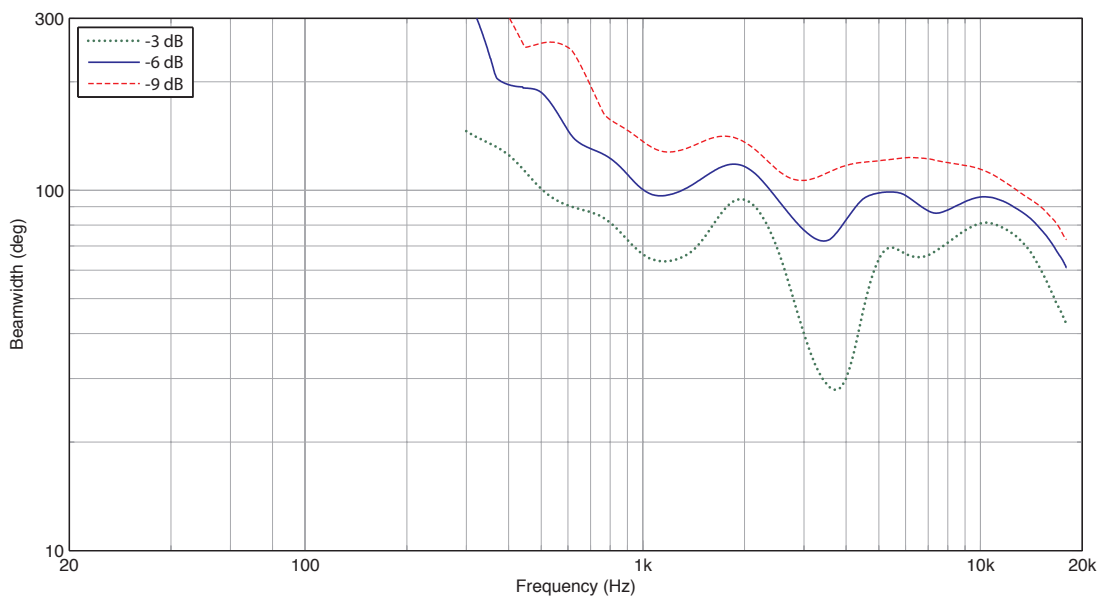


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## Horizontal Beamwidth

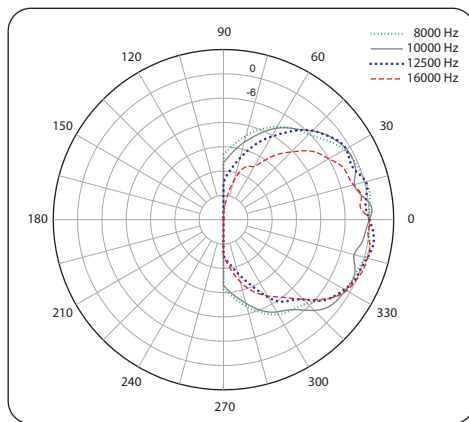
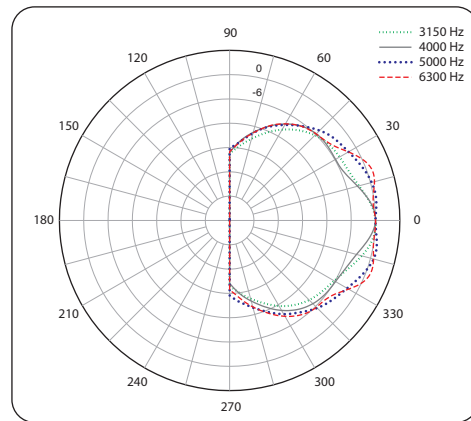
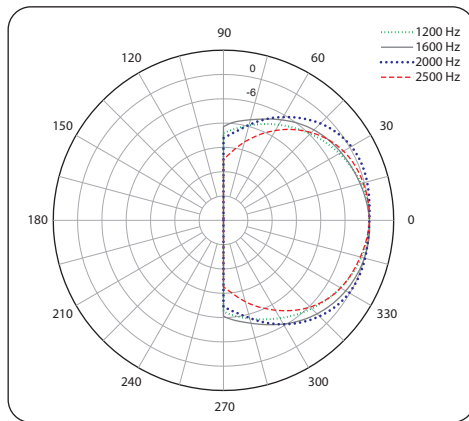
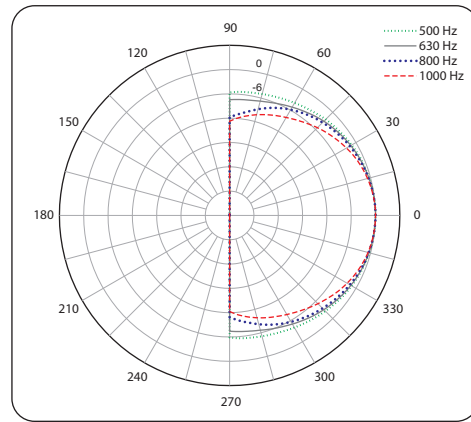
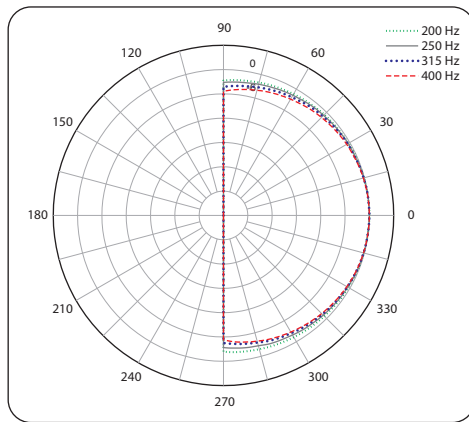


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## Polar Plots

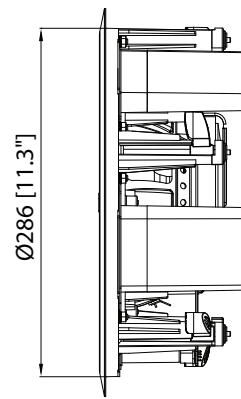
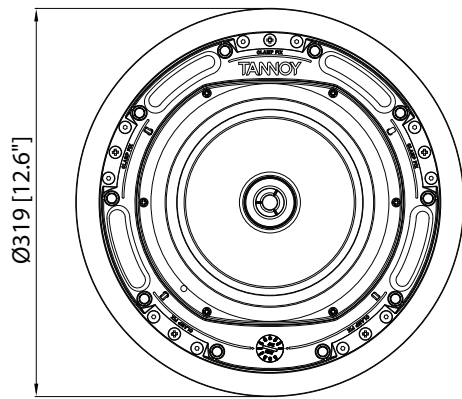
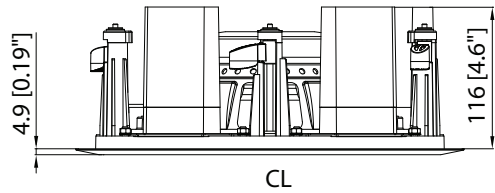


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## Dimensions



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## Technical Specifications

### Performance

Frequency response (-3 dB) <sup>(1)</sup>	47 Hz - 30 kHz BM Backcan
Frequency range (-10 dB) <sup>(1)</sup>	40 Hz - 35 kHz BM Backcan
Frequency range (-10 dB) <sup>(1)</sup>	41 Hz - 35 kHz PI Backcan
System sensitivity (1 W @ 1 m) <sup>(2)</sup>	92 dB (1 W = 4 V for 16 Ohms)
Nominal coverage angle	90 degrees conical

### Power handling <sup>(3)</sup>

Average	90 W
Programme	180 W
Peak	360 W
Recommended amplifier power	180 W @ 16 Ohms
Nominal impedance (Lo, Z)	16 Ohms

### Rated maximum SPL

Average	112 dB
Peak	118 dB
With THP60 - average	110 dB

### Transformer taps (via front rotary switch)

70 V	60 W (83 Ω) / 30 W (165 Ω) / 15 W (330 Ω) / 7.5 W (660 Ω) / OFF & low impedance operation
100 V	60 W (165 Ω) / 30 W (330 Ω) / 15 W (660 Ω) / OFF & low impedance operation

### Transducers

Dual concentric point source driver	1 x 200 mm (8.0") Dual Concentric driver, using Omnimagnet technology
Low frequency	44 mm (1.75") voice coil, treated multi fiber paper pulp cone
High frequency	25 mm (1.00") PEI dome

### Physical

#### Enclosure

Backcan	Zinc plated steel
Baffle	Reflex loaded UL 94V-0 rated ABS
Grille	Steel, with weather resistant coating

#### Safety features

Safety ring located at rear of enclosure for load bearing safety bond

#### Clamping design

Security toggle clamp Min / Max clamping range 9.5 mm (0.37") / 60 mm (2.36") Recommended clamp torque: 1.5 Nm

#### Backcan options

Blind mount (BM)	Complete with fixed backcan
Pre install (PI)	Separate backcan for pre-installation

#### Cable entry options

Cable clamp & squeeze connector for conduit up to 22 mm

#### Conduit knockouts on PI Backcan

3 Sets of horizontal positions  
19 / 22 / 28 mm (0.75" / 0.87" / 1.10")

#### Connectors

Removable locking connector with screw terminals with "loop through" facility

#### Compliance

UL-1480, UL-2043, CE

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Bezel diameter	319.0 mm (12.56")
Front of ceiling to rear of backcan	—
Front of ceiling to top of safety loop	—
BM model: Front of ceiling to rear of backcan	310.5 mm (12.22")
BM model: Front of ceiling to top of safety loop	327.7 mm (12.90")
PI model: Front of ceiling surface to rear of speaker unit	125.6 mm (4.94")
PI model: Front of accessory backcan bezel to top of safety loop	168.5 mm (6.63")
Hole cutout diameter (all models)	295 mm (11.61")
<b>Net weight (ea)</b>	
CMS 803DC BM	8.5 kg (18.74 lbs)
CMS 803DC PI	5.0 kg (11.02 lbs)
PI Backcan	3.7 kg (8.1 lbs)
<b>Included accessories</b>	C-Ring, tile-bridge kit, paint mask, cut-out template, grille
<b>Optional accessories</b>	Plaster (mud) ring, Arco grille
<b>Packed quantity</b>	2

#### Notes

- (1) Average over stated bandwidth. Measured in an IEC baffle in an Anechoic Chamber
- (2) Unweighted pink noise input, measured at 1 metre on axis
- (3) Long term power handling capacity as defined in EIA - 426B test

A full range of measurements, performance data, CLF and Ease Data for CMS 803DC/CMS 803DCQ can be downloaded from [www.tannoypro.com](http://www.tannoypro.com).

TANNOY operates a policy of continuous research and development. The introduction of new materials or manufacturing methods may introduce variations in actual performance; however, actual performance always will equal or exceed the published specifications, which TANNOY reserves the right to alter without prior notice. Please verify the latest specifications when dealing with critical applications.



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MADE IN CHINA

SUSPENDING THIS SYSTEM SHOULD ONLY BE DONE BY QUALIFIED PERSONS FOLLOWING SAFE INSTALLATION STANDARDS

UL LISTED Type:G US 3PHS

CE E

**SPEAKER: CMS 803DC PI**

WIRING	PASSIVE
1+ / 2-	INPUT
3- / 4+	LINK
INPUT	POWER
70 V LINE	7.5, 15, 30, 60 W
100 V LINE	15, 30, 60 W
16Ω	180 W PROGRAM

REFER TO INSTALLATION WIRING DIAGRAM IN QUICK START GUIDE

**TANNOY**

DESIGNED AND ENGINEERED IN THE U.K.

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**TANNOY**



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